

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/815593.app.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 08:59
S2	6	(("5340628") or ("5394413") or ("6022905") or ("6057871") or ("6113992") or ("6160568")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	OFF	2006/06/02 11:42
S5	56	("4982405"   "5119382"   "5132977"   "5253102"   "5315433").PN. OR ("5394413").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:42
S6	1	S5 and (saturation near2 threshold)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:45
S7	2	S5 and (saturat\$3 near2 (threshold or absorb\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:55
S8	29	"347".clas. and ((Q\$1switch\$3 or (Q adj switch)) adj laser)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:58
S9	47	(passive adj (Q\$1switch\$3 or (Q adj switch)) adj laser)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:58
S10	3	(S8 or S9) and ((saturation or hold\$3 or simmer\$3 or lase or threshold) near2 level)	US-PGPUB; USPAT; USOCR	OR	ON	2006/06/02 15:59
S11	6	("5340628" "5394413" "6022905" "6057871" "6113992" "6160568").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/17 08:55
S12	3	("5719372" "5225923" "5719372" "5734412").pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 09:41
S13	4	(US-20020001028-\$).did. or (US-6961078-\$ or US-6160568-\$ or US-5394413-\$).did.	US-PGPUB; USPAT	OR	ON	2006/07/18 09:39
S14	1552	(((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser))) and ((pump\$3 or las\$3) same (threshold or saturat\$3 or hold))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:20
S15	17	(((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser))) and ((pump\$3 or las\$3) same (threshold or saturat\$3 or hold) same "%")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:25

## EAST Search History

S16	11	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and ((pump\$3 or las\$3) with (threshold or saturat\$3 or hold) with "50%")	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:30
S17	0	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and ("% adj (below or under or "of") adj (threshold or saturation))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:31
S18	181	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and ((below or under or "of") adj (threshold or saturation))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:33
S19	0	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (percent adj (below or under or "of") adj (threshold or saturation))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:32
S20	8	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (power near3 ((below or under or "of") adj (threshold or saturation)))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:35
S21	1	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (simmer with saturation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:36
S22	6	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (hold\$3 with saturation)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:39
S23	456	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (hold\$3 with las\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:39
S24	5	((Q\$1switch) or (Q adj switch)) or (micro\$1laser or (micro adj laser)) and (hold\$3 with las\$3 with threshold)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 10:39
S25	54	("3609389"   "3628186"   "3866141"   "3902137"   "4309998"   "4391275"   "4479220"   "4630275"   "4660205"   "4667331"   "4982405"   "5172391"   "5243611"   "5812569"   "6009110"   "6418154"   "Re34192").PN. OR ("2002/0141457"   "5001716"   "5381431"   "6654391").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 10:45
S26	43	S25 and (hold\$3 or saturat\$3 or threshold)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 11:00

## EAST Search History

S28	448	laser and (below near (simmer\$3 threshold saturat\$3 populat\$3 hold\$3) near (level power)) and pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 11:03
S29	38	(q same laser) and (below near (simmer\$3 threshold saturat\$3 populat\$3 hold\$3) near (level power)) and pump\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 11:16
S30	1	60/459795	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 11:16
S31	1	saturation with threshold with simmer with power with level	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:54
S32	35	simmer with power with level	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 13:59
S33	231	hold with off with power with level	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:32
S34	23	hold with off with power with level and laser	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:24
S35	152	las\$3 with hold with power with level	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:31
S36	14	hold with off with power with level with threshold	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:36
S37	3	hold with off with power with level with saturation	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:33
S38	40	q\$1switch\$3 with control with emit\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:36
S39	116	hold with off with level with threshold	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:53
S40	16	simmer with level with threshold	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 14:47
S41	100	(372/38.02,38.07).ccls. and (bias adj current) and (modulation adj current) and threshold	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:26

## EAST Search History

S42	0	(372/38.02,38.07).ccls. and (bias adj current) and (modulation adj current) and threshold and (q\$1switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:27
S43	0	(372/38.02,38.07).ccls. and (bias adj current) and (modulation adj current) and threshold and (q adj switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:28
S44	0	(372/38.02,38.07,10,11).ccls. and (bias adj current) and (modulation adj current) and threshold and (q adj switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:28
S45	0	(372/38.02,38.07,10,11).ccls. and (bias adj current) and (modulation adj current) and threshold and (q\$1switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:28
S46	3	(bias adj current) and (modulation adj current) and threshold and (q\$1switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 15:28
S47	4	activation with time with laser with pump	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 16:46
S48	566	activation with time same pump and las\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 16:47
S49	2	"6917639"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:25
S50	40	("20020080428"   "20020101642"   "20020114365"   "20020141466"   "3925735"   "4339822"   "4347610"   "4677632"   "4985896"   "5027362"   "5036519"   "5043992"   "5050177"   "5138623"   "5153765"   "5237579"   "5258780"   "5309269"   "5325160"   "5500867"   "5651017"   "5675599"   "5754577"   "5784091"   "5844928"   "5946334"   "6055252"   "6118798"   "6233081"   "6359717"   "6370175"   "6376837"   "6384949"   "6388792"   "6400391"   "6417509"   "6448998"   "6509995"   "6560258").PN. OR ("6917639").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 17:36

## EAST Search History

S51	28	activation with time same pump same threshold and las\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:46
S52	37	(activation with time) same threshold same (simmer or hold)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:48
S53	14	(activation with time) same saturat\$3 same (simmer or hold)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:49
S54	199	((simmer or hold) with (saturation or threshold)) and laser and ("% or percent)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:53
S55	5	((simmer or hold) with (saturation or threshold)) same ("% or percent)) and laser	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:55
S56	157	((simmer or hold) with (saturation or threshold)) same ("% or percent))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 17:58
S57	2	((simmer or hold) with (saturation or threshold)) same microlaser)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/18 18:11
S58	127	power saturation level threshold laser	US-PGPUB; USPAT; USOCR; EPO; JPO	SAME	ON	2006/07/18 18:12
S59	3	("5488620"   "5991315"   "6608854").PN. OR ("6931047").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/18 18:23
S60	58	(optic\$2 same scan\$4 same mirror same pivot\$4) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 09:22
S61	1	(fiber near optic\$2 same scan\$4 same mirror same pivot\$4) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 09:55
S62	23	(q\$1switch with laser) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 10:22

## EAST Search History

S63	1	(q\$1switch with laser) and "399".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 10:02
S64	883	(laser) and (fiber near optic\$2) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 10:16
S65	183	((laser) and ((fiber near optic\$2) same guid\$4) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 10:17
S66	424	(q\$1switch with laser) and (fiber near optic\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 10:22
S67	85	(q\$1switch with laser) and ((fiber near optic\$2) same guid\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 11:42
S68	245	laser and (optic\$2 near guid\$4) same (mirror or (fiber near optic)) same (chasis or base or body or housing or carriage)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 13:15
S70	5	laser with (fiber near optic) same (optical near head) with (move or movable)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:43
S71	164	(fiber near optic\$2) same (((optic\$2 or writ\$3) near head) with (move or movable or moving))	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:03
S72	933	((carriage or head) with (adjust\$3) with (distance)) and laser	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:04
S73	180	(((carriage or head) with (adjust\$3) with (distance)) and laser) and "347".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:06
S74	147	(((carriage or head) with (adjust\$3) with (distance)) and laser) and "347".clas. not inkjet	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:07
S75	35	(((carriage or head) with (adjust\$3) with (distance)) and laser) and "347".clas. not (inkjet or drop or liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:58

## EAST Search History

S76	1	"2002164420"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:41
S77	2	"2002-164420"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:39
S78	221	sasaki-yoshiharu.in.	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:44
S79	9	(((carriage or head) with (vary or variable) with (distance)) and laser) and "347".clas. not (inkjet or drop or liquid)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/19 15:59
S80	18	"6072815"	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 09:23
S81	3	(control\$3 near circuit) with laser with separate with print\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 09:27
S82	5	(control\$3 near circuit) with (microlaser or laser) with separat\$3 with print\$3	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 09:29
S83	1	(control\$3 near circuit) with (microlaser or laser) with separat\$3 with (heat near management)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 09:29
S84	6	(control\$3 near circuit) with (microlaser or laser) with separat\$3 with (heat)	US-PGPUB; USPAT; USOCR; EPO; JPO	OR	ON	2006/07/20 09:30

## EAST Search History

S85	52	("20020167974"   "20020185474"   "20030156615"   "20050069007"   "3571744"   "3577097"   "3581230"   "3673504"   "3711791"   "3772611"   "3790278"   "3820038"   "3824717"   "4030839"   "4169251"   "4174504"   "4176327"   "4197513"   "4363126"   "4393517"   "4498179"   "4499582"   "4660204"   "4675872"   "4719639"   "4787090"   "4815094"   "4891819"   "5177748"   "5220576"   "5299223"   "5311529"   "5327442"   "5329539"   "5353297"   "5365532"   "5491579"   "5600668"   "5610936"   "5654782"   "5748663"   "5881087"   "5972737"   "5982790"   "6061377"   "6072815"   "6192061"   "6252726"   "6459314"   "6683893"   "6697408"   "6826204"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 12:03
S86	9	(control with circuit with enclosure) same (printing with enclosure)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 12:06
S87	123	(control with circuit with housing) same (print\$3 with housing) same (separa\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 12:43
S88	6	(cool\$3 near system) with (temperature near sens\$3) with (laser or microlaser)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 13:05
S89	0	(cool\$3 near system) with (temperature near sens\$3) with (PID or (proportional adj integral adj (derivative or differential)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 13:07
S90	46	(cool\$3) with (temperature near sens\$3) with (PID or (proportional adj integral adj (derivative or differential)))	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 13:51
S91	723	temperature with control with laser with sensor	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 13:51
S92	26	(temperature with control with laser with sensor) and "347".clas.	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 13:55
S93	70	temperature with control with laser with sensor with cooling	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 14:00
S94	6	temperature with control with laser with sensor with cooling and (PID)	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 14:16

## EAST Search History

S95	125	photodiode with laser with rate	US-PGPUB; USPAT; USOCR	OR	ON	2006/07/20 14:17
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